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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,402	08/01/2003	V. Suzanne Klimberg	781.020US1	6071
21186 7.	590 11/14/2005		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH			WEDDINGTON, KEVIN E	
1600 TCF TOV	WER	•		
121 SOUTH EIGHT STREET MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			1614	
			D. (200)	

DATE MAILED: 11/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/633,402	KLIMBERG ET AL.		
		Examiner	Art Unit		
		Kevin E. Weddington	1614		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHOR WHICHE - Extensior after SIX - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DA is of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. od for reply is specified above, the maximum statutory period w reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing stent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
2a)	esponsive to communication(s) filed on <u>14 Julis</u> is action is FINAL . 2b)⊠ This note this application is in condition for allowards sed in accordance with the practice under Expenses.	action is non-final. nce except for formal matters, pro			
Disposition	of Claims				
4a) 5)□ Cl: 6)図 Cl: 7)図 Cl: 8)□ Cl:	aim(s) 6-14,19-26 and 44-58 is/are pending of the above claim(s) 19-26 is/are withdraw aim(s) is/are allowed. aim(s) 6,8-14,44-47 and 52-58 is/are rejected aim(s) 7 and 48-51 is/are objected to. aim(s) are subject to restriction and/or and	vn from consideration.			
Application					
10)□ The Ap Re	e specification is objected to by the Examine of drawing(s) filed on is/are: a) accepticant may not request that any objection to the placement drawing sheet(s) including the correct e oath or declaration is objected to by the Examination.	epted or b) objected to by the Education of the Education of the drawing (s) be held in abeyance. See tion is required if the drawing (s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority und	er 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	References Cited (PTO-892)	4) Interview Summary			
3) 🛛 Informati	Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date 7-14-05.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)		

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Claims 6-14, 19-26 and 44-58 are presented for examination.

Applicants' amendment and information disclosure statement filed July 14, 2005 have been received and entered.

Accordingly, the rejections made under 35 USC 103 as set forth in the previous Office action dated July 14, 2005 at pages 6-9 is hereby withdrawn.

Claims 19-26 are withdrawn from consideration.

Claim Objections

Claims 7 and 48-51 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 6, 8-14, 44-47 and 52-58 are again provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 10-12 of copending Application No. 10/903,500. Although the conflicting claims are not identical, they are not patentably distinct from each other because copending application 10/903,500 teaches a method of monitoring the effectiveness of glutamine supplementation to protect breast tissue against radiation injury; and the present application teaches a method of protecting non-mucosal tissue (breast tissue) against damage from radiation therapy by administering a therapeutically effective amount of glutamine. Clearly, the copending application's method encompasses the present application's method wherein the administration of glutamine protects the breast tissue against radiation injury from radiation therapy.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 6, 8-14, 44-47 and 52-58 are not allowed.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 6, 8-14, 44-47 and 52-58 are again rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method of protecting breast tissue against damage from radiation therapy, comprising administering to a mammalian subject afflicted with breast cancer a composition comprising glutamine,

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a carbohydrate, does not reasonably provide enablement for protecting non-mucosal tissue against damage from radiation therapy wherein the subject is afflicted with other types of cancer such as skin cancer. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

In this regard, the application disclosure and claims have been compared per factors indicated in the decision <u>In re Wands</u>, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art
- 7) the predictability of the art and
- 8) the breadth of the claims

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice that instant invention without resorting to undue experimentation in view of further discussion below.

Applicants' remarks regarding the rejection made under 35 USC 112, first paragraph is improper are not persuasive since the applicants' scope of enablement is enabled for protecting non-mucosal tissue (breast tissue) wherein the subject is afflicted with breast cancer. Again, applicants' specification only shows working examples limited to treating breast cancer and not other types such as skin cancer, which contains non-mucosal tissue.

The rejection made under 35 USC 112, first paragraph is adhered to.

Claims 6, 8-14, 44-47 and 52-58 are not allowed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 6 and 56-58 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilmore (5,248,697) of PTO-1449.

Wilmore teaches the administration of glutamine to a mammal to reduce or prevent radiation-associated oxidative damage in the tissues that would include non-mucosal tissue such as breast tissue (See the abstract). Note particularly column 7, lines 66-68 to column 8, lines 1-3; states the glutamine administration reduces the toxicity associated with chemotherapeutic agents for the treatment of carcinoma of the colon, rectum, breast, stomach and pancreas. Note that the glutamine is

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administered days or weeks before the chemotherapy (radiation), the same as applicants' claim 57 or glutamine administration can be continued during the chemotherapy (see column 8, lines 6-8), the same as applicants' claims 56 and 58. Clearly, the cited reference anticipates the applicants' instant invention; therefore, the instant invention is unpatentable over the cited reference.

Claims 6 and 56-58 are not allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilmore (5,248,697) of PTO-1449.

Wilmore was discussed above <u>supra</u> for the administration of glutamine to reduce or prevent radiation-associated oxidative damage in the tissues that would include non-mucosal tissue such as breast tissue.

The instant invention differs from the cited reference in that the cited reference does not teach the preferred amount of glutamine administered to the subject as disclosed in claims 44-47. However, to determine an amount having optimum effectiveness to protect non-mucosal tissue against damage from radiation therapy is well within the level of one having ordinary skill in the art, and the skilled artisan would have been motivated to determine optimum amounts to get the maximum effectiveness in the absence of evidence to the contrary.

Claims 44-47 are not allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571)272-0587. The examiner can normally be reached on 11:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin E. Weddington Primary Examiner Art Unit 1614

K. Weddington November 9, 2005